Smart Skies			
1997 Mathematics			
Learning Standards			
Illinois Mathematics			
Grades 4-5			
Activity/Lesson	**State**	**Standards**	
Fly by Math	IL	MA.4-5.10.A.2a	Organize and display data using pictures, tallies, tables, charts, bar graphs, line graphs, line plots and stem-and-leaf graphs.
Fly by Math	IL	MA.4-5.10.B.2b	Collect, organize and display data using tables, charts, bar graphs, line graphs, circle graphs, line plots and stem-and-leaf graphs.
Fly by Math	IL	MA.4-5.10.B.2d	Interpret results or make relevant decisions based on the data gathered.

Smart Skies			
1997 Mathematics			
Learning Standards			
Illinois Mathematics			
Grades 6-8			
Activity/Lesson	**State**	**Standards**	
Fly by Math	IL	MA.6-8.7.A.3b	Apply the concepts and attributes of length, capacity, weight/mass, perimeter, area, volume, time, temperature and angle measures in practical situations.
Fly by Math	IL	MA.6-8.10.A.3a	Construct, read and interpret tables, graphs (including circle graphs) and charts to organize and represent data.
Fly by Math	IL	MA.6-8.10.B.3	Formulate questions (e.g., relationships between car age and mileage, average incomes and years of schooling), devise and conduct experiments or simulations, gather data, draw conclusions and communicate results to an audience using traditional methods and contemporary technologies.
Line Up with Math	IL	MA.6-8.7.A.3b	Apply the concepts and attributes of length, capacity, weight/mass, perimeter, area, volume, time, temperature and angle measures in practical situations.
Line Up with Math	IL	MA.6-8.9.D.3	Compute distances, lengths and measures of angles using proportions, the Pythagorean theorem and its converse.

Smart Skies			
1997 Mathematics			
Learning Standards			
Illinois Mathematics			
Grades 9-10			
Activity/Lesson	**State**	**Standards**	

Fly by Math	IL	MA.9-10.7.A.4b	Apply formulas in a wide variety of theoretical and practical real-world measurement applications involving perimeter, area, volume, angle, time, temperature, mass, speed, distance, density and monetary values.
Fly by Math	IL	MA.9-10.7.B.4	Estimate and measure the magnitude and directions of physical quantities (e.g., velocity, force, slope) using rulers, protractors and other scientific instruments including timers, calculators and computers.
Fly by Math	IL	MA.9-10.10.A.4a	Represent and organize data by creating lists, charts, tables, frequency distributions, graphs, scatterplots and box-plots.
Fly by Math	IL	MA.9-10.10.A.4b	Analyze data using mean, median, mode, range, variance and standard deviation of a data set, with and without the use of technology.
Line Up with Math	IL	MA.9-10.7.A.4b	Apply formulas in a wide variety of theoretical and practical real-world measurement applications involving perimeter, area, volume, angle, time, temperature, mass, speed, distance, density and monetary values.
Line Up with Math	IL	MA.9-10.7.B.4	Estimate and measure the magnitude and directions of physical quantities (e.g., velocity, force, slope) using rulers, protractors and other scientific instruments including timers, calculators and computers.